

CLAIMS

1. A cellular preparation comprising cells in polyvinyl alcohol admixed with a cell preservative.

5

2. The cellular preparation as claimed in claim 1, wherein the cell surface is further coated with an extracellular matrix.

3. The cellular preparation as claimed in claim 1 or 2
10 further comprising a growth factor.

4. The cellular preparation as claimed in any one of claims 1 to 3, wherein the cells are one or two or more kinds of cells selected from the group consisting of pancreatic islet cells, pancreatic endocrine cells, hepatocytes, anterior pituitary
15 cells, growth hormone-secreting cells, osteocytes, thyroid hormone-secreting cells, and parathyroid hormone-secreting cells.

20 5. The cellular preparation as claimed in any one of claims 1 to 4, wherein the cells are treated with a cell preservative.

6. The cellular preparation as claimed in any one of claims 1 to 5, wherein the cells are transformed cells.

25

7. The cellular preparation as claimed in any one of claims 1 to 6, which has a sheet-like, plate-like, rod-like, tubular, or bead like shape.

8. The cellular preparation as claimed in any one of claims 1 to 7, wherein the cell preservative solution is Euro-Collins solution, Cell Banker, or UW solution.

5 9. The cellular preparation as claimed in any one of claims 1 to 8, which is transplanted subcutaneously, intramuscularly, or intraabdominally to mammals.

10 10. A method for prevention and treatment of endocrine or metabolic disease, which comprises using the cellular preparation according to any one of claims 1 to 9.

15 11. The method for prevention and treatment of endocrine or metabolic disease as claimed in claim 10, wherein the endocrine or metabolic disease is diabetes or pituitary dwarfism.

20 12. A method for prevention and treatment of hemophilia, which comprises using the cellular preparation according to any one of claims 1 to 9.

25 13. A method for prevention and treatment of bone disease, which comprises using the cellular preparation according to any one of claims 1 to 9.

14. A method for prevention and treatment of cancer, which comprises using the cellular preparation according to any one of claims 1 to 9.

15. A method for prevention and treatment of hepatic insufficiency or inborn errors of metabolism, which comprises using the cellular preparation according to any one of claims 1 to 9.

5

16. A method for preparing a cellular preparation, which comprises admixing a cell preservative with a polyvinyl alcohol, and mixing cells with the polyvinyl alcohol, and gelling the resulting cell-containing polyvinyl alcohol.

10

17. The cellular preparation as claimed in any one of claims 1 to 9, which is a medicine for human or animal use.